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32-2188: BHMT2 Recombinant Protein

Alternative Name :	BHMT2,Betaine--Homocysteine S-Methyltransferase 2,SMM-Hcy Methyltransferase,Betaine-Homocysteine Methyltransferase 2,S-Methylmethionine--Homocysteine S-Methyltransferase BHMT2,EC 2.1.1.10,EC 2.1.1.5.

Description

Source : Escherichia Coli. BHMT2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 386 amino acids (1-363 a.a.) and having a molecular mass of 42.7kDa. BHMT2 is fused to a 23 amino acid His-tag at N-terminus. Betaine-Homocysteine Methyltransferase 2 (BHMT2) is involved in the regulation of homocysteine metabolism. Homocysteine is a sulfur-containing amino acid which has a key role in methylation reactions. Transfer of the methyl group from betaine to homocysteine generates methionine, which donates the methyl group to methylate DNA, proteins, lipids, and other intracellular metabolites. BHMT2 is one of two methyl transferases which can catalyze the transfer of the methyl group from betaine to homocysteine. BHMT2 converts homocysteine to methionine using S-methylmethionine (SMM) as a methyl donor. Homocysteine metabolism anomalies are implicated in disorders varying from vascular disease to neural tube birth defects such as spina bifida.

Product Info

Amount :	10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	BHMT2 protein solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSMAPAGRP GAKKGILERL ESGEVVIGDG SFLITLEKRG YVKAGLWTPE AVIEHPDAVR QLHMEFLRAG SNVMQTFTFS ASEDNMESKW EDVNAAACDL AREVAGKGDA LVAGGICQTS IYKYQKDEAR IKKLFRQQLE VFAWKNVDFL IAEYFEHVEE AVWAVEVLKE SDRPVAVTMC IGPEGDMHDI TPGECAVRLV KAGASIVGVN CRFGPDTSLK TMELMKEGLE WAGLKAHLMV QPLGFHAPDC GKEGFVDLPE YPFGLESRVA TRWDIQKYAR EAYNLGVRYI GGCCGFEPYH IRAIAEELAP ERGFLPPASE KHGSWGSGLD MHTKPWIRAR ARREYWENLL PASGRPFCPS LSKPDF.

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